

IN THE CLAIMS

Kindly amend the claims as follows:

1. (canceled)
2. (canceled)
3. (canceled)
4. (canceled)
5. (canceled)
6. (canceled)
7. (canceled)
8. (canceled)

9. (new) An optical glass comprising, in mass %,

SiO ₂	30 - 70%
B ₂ O ₃	3 - less than 15%
PbO	0 - 2%

Na₂O + K₂O + BaO + ZnO in the total amount of 10 - 45% and fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of F contained in the fluoride or fluorides being 0-11%.

10. (new) An optical glass as defined in claim 9 further comprising, in mass %,

CaO	0 - 2%
SrO	0 - 2%
ZrO ₂	0 - 2%

the total amount of one or more of the CaO, SrO and ZrO₂ ingredients being 2% or below.

11. (new) An optical glass as defined in claim 9 wherein an amount of change in refractive index (Δn : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of laser beam at wavelength of 351nm having average output power of 0.43W, pulse repetition rate of 5kHz and pulse width of 400ns for one hour is 5 ppm or below.

12. (new) An optical glass as defined in claim 11 comprising a fluorine ingredient and/or a titanium oxide ingredient and/or an

arsenic oxide ingredient.

13.(new) An optical glass as defined in claim 12 comprising, in mass %, a total amount of 0.1 - 11% of F in one or more fluorides as the fluorine ingredient and/or 0.001 - 0.5% of TiO_2 as the titanium oxide ingredient and/or 0.001 - 1% of As_2O_3 as the arsenic oxide ingredient.

14.(new) An optical glass comprising, in mass %,

SiO_2 30 - 70%

B_2O_3 3 - 20%

$\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{BaO} + \text{ZnO}$ in the total amount of 19.5 - 45% and fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of F contained in the fluoride or fluorides being 0-11%.

15. (new) An optical glass as defined in claim 14 further comprising, in mass %,

CaO 0 - 2%

SrO 0 - 2%

ZrO_2 0 - 2%

the total amount of one or more of the CaO , SrO and ZrO_2 ingredients being 2% or below.

16. (new) An optical glass as defined in claim 14 wherein an amount of change in refractive index (Δn : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of laser beam at wavelength of 351nm having average output power of 0.43W, pulse repetition rate of 5kHz and pulse width of 400ns for one hour is 5 ppm or below.

17.(new) An optical glass as defined in claim 16 comprising a fluorine ingredient and/or a titanium oxide ingredient and/or an arsenic oxide ingredient.

18.(new) An optical glass as defined in claim 17 comprising, in

mass %, a total amount of 0.1 - 11% of F in one or more fluorides as the fluorine ingredient and/or 0.001 - 0.5% of TiO_2 as the titanium oxide ingredient and/or 0.001 - 1% of As_2O_3 as the arsenic oxide ingredient.

19.(new) An optical glass comprising, in mass %,

SiO_2 30 - 70%

B_2O_3 3 - 20%

PbO 0 - 2%

$\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{BaO} + \text{ZnO}$ in the total amount of 10 - 45%

where

BaO 1 - 42% and

fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of F contained in the fluoride or fluorides being 0-11%.

20.(new) An optical glass as defined in claim 19 further comprising, in mass %,

CaO 0 - 2%

SrO 0 - 2%

ZrO_2 0 - 2%

the total amount of one or more of the CaO , SrO and ZrO_2 ingredients being 2% or below.

21.(new) An optical glass as defined in claim 19 wherein an amount of change in refractive index (Δn : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of laser beam at wavelength of 351nm having average output power of 0.43W, pulse repetition rate of 5kHz and pulse width of 400ns for one hour is 5 ppm or below.

22.(new) An optical glass as defined in claim 21 comprising a fluorine ingredient and/or a titanium oxide ingredient and/or an arsenic oxide ingredient.

23.(new) An optical glass as defined in claim 22 comprising, in

mass %, a total amount of 0.1 - 11% of F in one or more fluorides as the fluorine ingredient and/or 0.001 - 0.5% of TiO_2 as the titanium oxide ingredient and/or 0.001 - 1% of As_2O_3 as the arsenic oxide ingredient.

24. An optical glass comprising, in mass %,

SiO_2 30 - 70%

B_2O_3 3 - less than 15%

Al_2O_3 0 - 6%

Li_2O 0 - 5%

$\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{BaO} + \text{ZnO}$ in the total amount of 10 - 45%

where

Na_2O 0 - 13%

K_2O 0 - 12%

BaO 0 - 42%

and

ZnO 0 - 7%

PbO 0 - 2%

TiO_2 0 - 0.5%

As_2O_3 0 - 1%

Sb_2O_3 0 - 1% and

fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of F contained in the fluoride or fluorides being 0-11%.

25. (new) An optical glass as defined in claim 24 further comprising, in mass %,

CaO 0 - 2%

SrO 0 - 2%

ZrO_2 0 - 2%

the total amount of one or more of the CaO , SrO and ZrO_2 ingredients being 2% or below.

26. An optical glass as defined in claim 24 wherein an amount of change in refractive index (Δ : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of laser beam at wavelength of 351nm having

average output power of 0.43W, pulse repetition rate of 5kHz and pulse width of 400ns for one hour is 5 ppm or below.

27.(new) Optical glass as defined in claim 27 comprising a fluorine ingredient and/or a titanium oxide ingredient and/or an arsenic oxide ingredient.

28.(new) An optical glass as defined in claim 27 comprising, in mass %, a total amount of 0.1 - 11% of F in one or more fluorides as the fluorine ingredient and/or 0.001 - 0.5% of TiO_2 as the titanium oxide ingredient and/or 0.001 - 1% of As_2O_3 as the arsenic oxide ingredient.

29. (new) An optical glass comprising, in mass %,

SiO_2 30 - 70%

B_2O_3 3 - 20%

Al_2O_3 0 - 6%

Li_2O 0 - 5%

$\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{BaO} + \text{ZnO}$ in the total amount of 19.5 - 45%

where

Na_2O 0 - 13%

K_2O 0 - 12%

BaO 0 - 42%

and

ZnO 0 - 7%

PbO 0 - 2%

TiO_2 0 - 0.5%

As_2O_3 0 - 1%

Sb_2O_3 0 - 1% and

fluoride or fluorides substituting for the above oxide or oxides partially or entirely, a total amount of F contained in the fluoride or fluorides being 0-11%.

30.(new) An optical glass as defined in claim 29 further comprising, in mass %,

CaO 0 - 2%

SrO 0 - 2%



0 - 2%

the total amount of one or more of the CaO, SrO and ZrO_2 ingredients being 2% or below.

31.(new) An optical glass as defined in claim 29 wherein an amount of change in refractive index (Δn : difference in refractive index between a state before radiation and a state after radiation) caused by radiation of laser beam at wavelength of 351nm having average output power of 0.43W, pulse repetition rate of 5kHz and pulse width of 400ns for one hour is 5 ppm or below.

32.(new) An optical glass as defined in claim 31 comprising a fluorine ingredient and/or a titanium oxide ingredient and/or an arsenic oxide ingredient.

33.(new) An optical glass as defined in claim 32 comprising, in mass %, a total amount of 0.1 - 11% of F in one or more fluorides as the fluorine ingredient and/or 0.001 - 0.5% of TiO_2 as the titanium oxide ingredient and/or 0.001 - 1% of As_2O_3 as the arsenic oxide ingredient.

34.(new) An optical glass comprising, in mass %,

SiO_2 30 - 70%

B_2O_3 3 - 20%

Al_2O_3 0 - 6%

Li_2O 0 - 5%

$\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{BaO} + \text{ZnO}$ in the total amount of 10 - 45%

where

Na_2O 0 - 13%

K_2O 0 - 12%

BaO 1 - 42%

and

ZnO 0 - 7%

PbO 0 - 2%

TiO_2 0 - 0.5%

As_2O_3 0 - 1%

Sb_2O_3 0 - 1% and
fluoride or fluorides substituting for the above oxide or oxides
partially or entirely, a total amount of F contained in the
fluoride or fluorides being 0-11%.

35. (new) An optical glass as defined in claim 34 further
comprising, in mass %,

CaO	0 - 2%
SrO	0 - 2%
ZrO ₂	0 - 2%

the total amount of one or more of the CaO, SrO and ZrO₂
ingredients being 2% or below.

36. (new) Optical glass as defined in claim 34 wherein an amount
of change in refractive index (Δn : difference in refractive index
between a state before radiation and a state after radiation)
caused by radiation of laser beam at wavelength of 351nm having
average output power of 0.43W, pulse repetition rate of 5kHz and
pulse width of 400ns for one hour is 5 ppm or below.

37. (new) An optical glass as defined in claim 36 comprising a
fluorine ingredient and/or a titanium oxide ingredient and/or an
arsenic oxide ingredient.

38. (new) An optical glass as defined in claim 37 comprising, in
mass %, a total amount of 0.1 - 11% of F in one or more fluorides
as the fluorine ingredient and/or 0.001 - 0.5% of TiO₂ as the
titanium oxide ingredient and/or 0.001 - 1% of As₂O₃ as the
arsenic oxide ingredient.